

Fig. 2 (PRIOR ART)

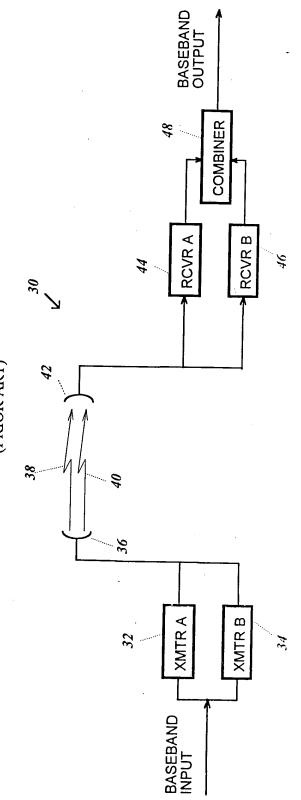
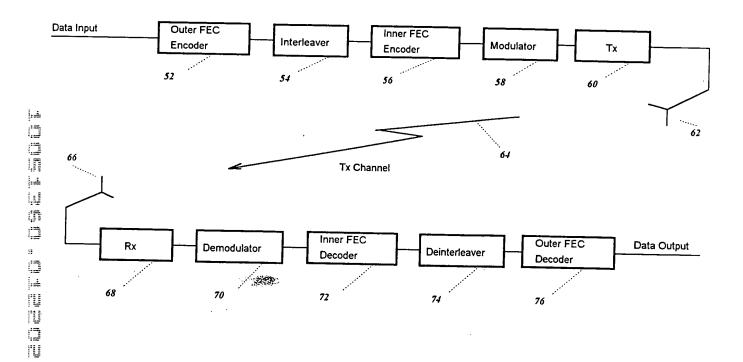


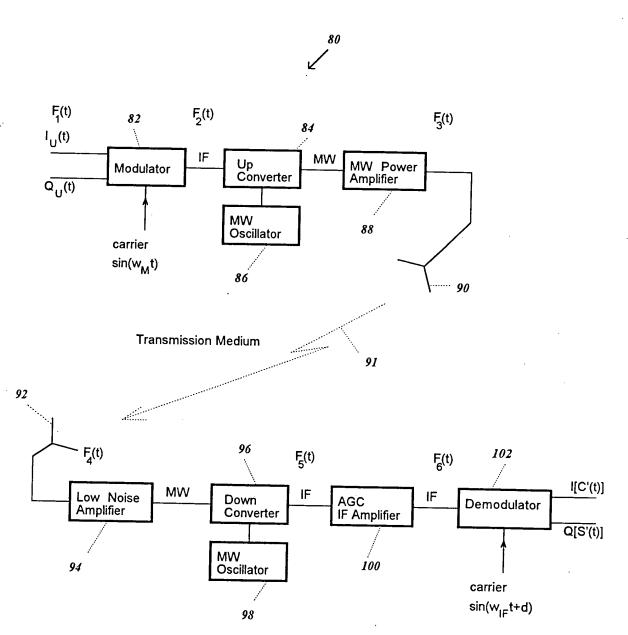
Fig. 3





Frenc.

Fig. 4



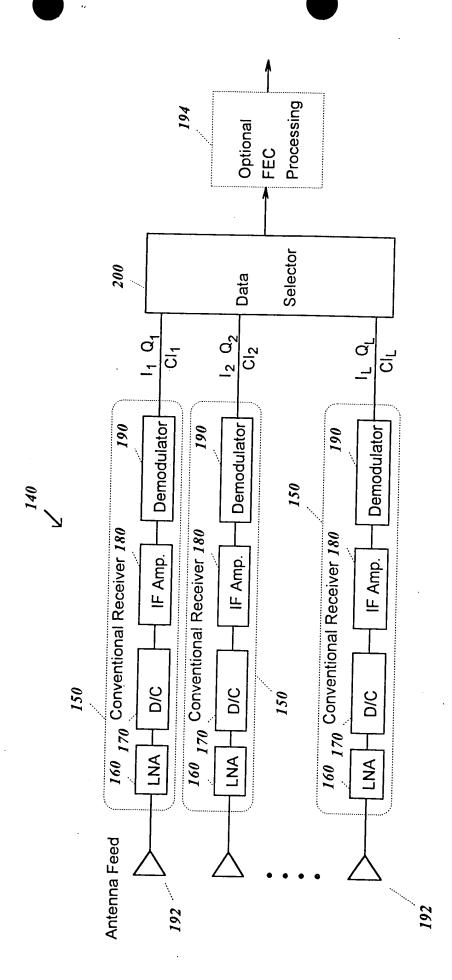
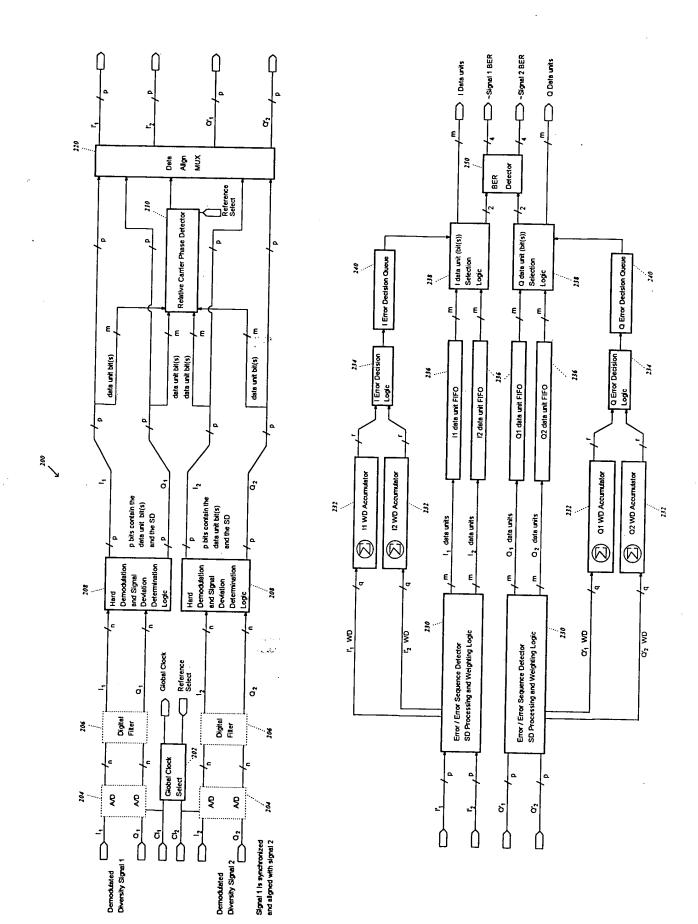
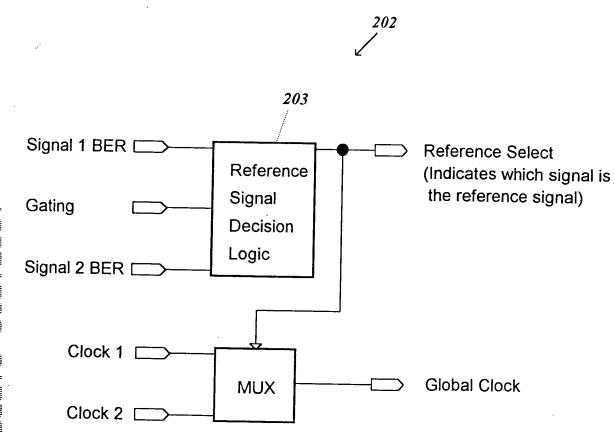


Fig. 6 Block Piagram of the Diversity Signal Data Selector System



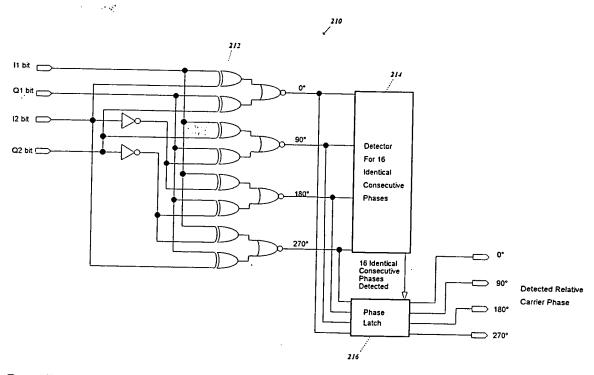


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Fig. 8 Simplified Diagram of Data Alignment Circuit (QPSK or QPRS modems)

Relative Carrier Phase Detector



Data Align Multiplexer

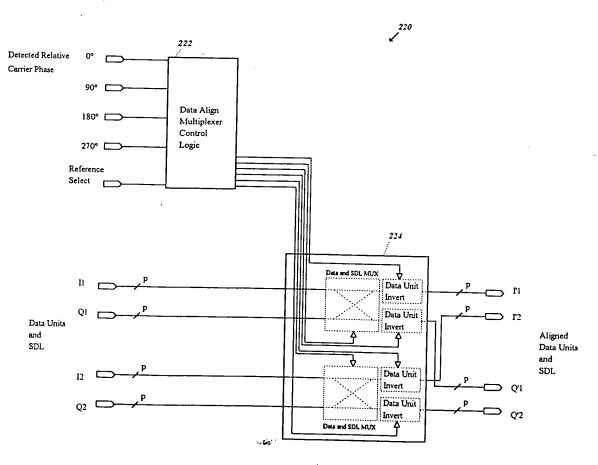
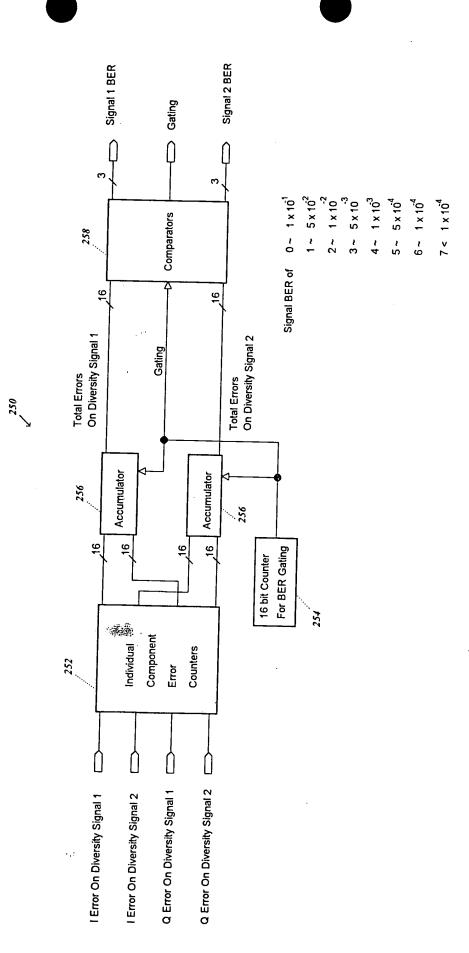


Fig. 9 BER Detector



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10.0 [971104] Curve 2 Measured Signal 2 BER Curve 1 Measured Signal 1 BER Fig. 10 Expected and Measured BER for 9QPR Radio Using Diversity Signal Selection 9.5 Curve 7 Ideal Selector Output 9.0 Curve..3

Measured Selector Output - Equally Faded Signals
(Diversity Gain = 1) 8.5 8.0 7.5 7.0 Curve 4
Expected Selector Output
(Diversity Gain = 10) Expected Selector Output
(Diversity Gain = 100) Curve 6 Expected Selector Output (Diversity Gain = 1000) 6.5 6.0 10-5 10-6 10-1 10^{-2} 10^{-3} 10-9 104 10-7 10^{-8} BEK

Eb/No (dB)

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Fig. 11 Expected BER Characteristics of Unprotected and Diversity Protected QPSK Radio

